

NIH GUIDE

for GRANTS and CONTRACTS

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

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HAVE YOU MOVED?

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The GUIDE is published at irregular intervals to announce scientific initiatives and to provide policy and administrative information to individuals and organizations who need to be kept informed of opportunities, requirements, and changes in grants and contracts activities administered by the National Institutes of Health.

Two types of supplements are published by the respective awarding units. Those printed on yellow paper concern contracts: solicitations of sources and announcement of availability of requests for proposals. Those printed on blue paper concern invitations for grant applications in well-defined scientific areas to accomplish specific program purposes.

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NATIONAL RESEARCH SERVICE AWARDS

FOR

SHORT-TERM TRAINING: STUDENTS IN

HEALTH PROFESSIONAL SCHOOLS

ANNOUNCEMENT

There has been recent evidence of a disturbing decline in the number of students in health professional schools who are interested in research careers. To help arrest or reverse this trend, the National Institutes of Health would like to take advantage of the November 1978 amendments to the National Research Service Award (NRSA) Act, P.L. 95-622, which encourage short-term research training. Individuals receiving research training awards of up to three months duration are not subject to a pay-back provision under this program. Title 42 of the Code of Federal Regulations, Part 66, is applicable to these awards.

I. PURPOSE

The National Institutes of Health announces a new program to expose talented students in health professional schools to the opportunities inherent in a research career. The program is designed to ameliorate the future shortage of clinical investigators by attracting highly qualified professional students into biomedical and behavioral research careers.

II. ELIGIBILITY REQUIREMENTS

A. Applicant Institutions

Domestic nonprofit private or public schools of medicine, osteopathy, dentistry, veterinary medicine, optometry, pharmacy and podiatry may apply for grants to support short-term research training for students in health professional schools for discrete periods of up to three months. The applicant institution must have the staff and facilities required for the proposed program. Only one application per health professional school will be accepted.

B. Trainees

The training institution will be responsible for the selection and appointment of trainees. Trainees must have successfully completed at least one semester at an accredited school of medicine, osteopathy, dentistry, veterinary medicine, optometry, pharmacy or podiatry prior to participating in the program. NRSA awards cannot be used to support courses which are required for the M.D., D.O., D.D.S., D.V.M. or other similar professional degrees.

Individuals appointed as trainees on the grant must be citizens or noncitizen nationals of the United States, or must have in their possession an Alien Registration Receipt Card (I-151 or I-551) at time of appointment. Noncitizen nationals are individuals who, although not citizens of the United States, owe permanent allegiance to the United States. They are generally persons born in lands which are not states but which are under United States sovereignty, jurisdiction, or administration (e.g. American Samoa). Individuals on temporary or student visas are not eligible.

III. PROGRAM ELEMENTS

Each institution is invited to develop a proposal in response to this announcement that is best suited to its own strengths and characteristics. The goal is to identify a cadre of exceptional students with the potential to pursue careers in biomedical and behavioral research.

The training program director should have a demonstrated record of success in conducting research and in working with research trainees. Each proposal should describe a plan for widely advertising the program throughout the school to insure active competition for places in the participating laboratories as well as a reasonable means of selecting only students with a genuine interest in exploring a research career. Special attention should be given to the recruitment of minority students and women.

No grants will be made for fewer than four, nor more than thirty-two, students per year.

The overall training is not necessarily restricted to activities in a single discipline or department. The choice of participating training sites and mentors should be carefully described to show that the institution's best environments and role models have been selected. It is expected that students will be assigned to the institution's strongest research and research training programs.

Each institution will be expected to encourage among the trainees a sense of belonging to a community of scientists. Among the methods that may be used is providing a special seminar series addressing such topics as research methodology, instrumentation, experimental design, etc. A plan for assessing the impact of the program on both the institution and the trainee is highly desirable.

IV. APPLICATION PROCESS

A. Application Form

The application form for Institutional Training Grants (PHS 6025) should be used. Block 1, Title of Proposal, should read Short-Term Training: Students in Health Professional Schools. Short-Term Training applications may not be submitted as supplements to an ongoing NIH award.

B. Period of Support

Institutions applying for short-term training institutional grants may request support for up to five years.

C. Institutional Training Costs

Institutional costs of up to \$250 per month for each participating student may be requested for applicable institutional expenses.

D. Stipends

The stipend support for trainees will be that approved for pre-doctoral NRSA trainees, as of July 1, 1980, \$420 per month. NRSA trainees in this program will not be required to sign payback agreements. Supplementation of the NRSA stipend from non-Federal funds is permitted.

E. Indirect Costs

Indirect costs may be requested at 8% of total allowable direct costs or actual rate, whichever is less.

V. REVIEW CRITERIA

All applications will be subject to the NIH peer review procedures. Particular attention will be paid to:

- The proposed training experience and the qualifications of the mentors.
- The training environment.
- The institution's commitment to the training of clinical investigators.
- The method of selection and assignment of students.
- The plan for measuring the effectiveness of the program.

VI. APPLICATION DATES AND NOTIFICATION OF AWARDS

November 19, 1979 is the only receipt date for applications to be funded in fiscal year 1980. The applications will be considered by the January-February 1980 National Advisory Councils; awards will be made in the spring of 1980. Thereafter, there will be one annual receipt date of May 1 for awards to be made early in the following year after consideration by the appropriate National Advisory Councils.

NATIONAL RESEARCH SERVICE AWARD (NRSA)

STIPEND INCREASE

ANNOUNCEMENT

As of July 1, 1980, all individuals receiving support through awards made under the National Research Service Award (NRSA) Act, P.L. 93-348 as amended under P.L. 95-622 dated November 1978, will receive an adjustment in their annual stipend level as follows:

Predoctoral Stipend

<u>All Years</u>	<u>Current</u>	<u>As of July 1, 1980</u>
-----	\$3,900	\$ 5,040

Postdoctoral Stipend

<u>Years of Relevant Experience</u>	<u>Present Stipend</u>	<u>As of July 1, 1980</u>
0	\$10,000	\$13,380
1	10,800	14,040
2	11,500	14,736
3	12,200	15,468
4	12,800	16,236
5 or more	13,200	17,040

Training program directors and individual NRSA awardees will be contacted by the awarding Institute as soon as implementation procedures have been completed. Every trainee and fellow supported under the NRSA Act will receive the adjustment on July 1, 1980 regardless of the date of the original award. No retroactive adjustments will be made.

The new stipend levels are to be used in the preparation of future NRSA institutional (training) and individual fellowship applications. They will be administratively applied to all applications now in the review process.

NATIONAL RESEARCH SERVICE AWARD (NRSA)

NON-TRAINEE EXPENSES - INSTITUTIONAL ALLOWANCES:

ADJUSTMENT FOR NEW AND COMPETING AWARDS MADE

NOTICE

AFTER JULY 1, 1980

A. Institutional NRSA Training Grants

The policy which limits support of non-trainee expenses to 25% of the total anticipated award has been modified. The maximum amount which can be requested is now based on a calculation which may provide up to \$3,000 per year for each predoctoral trainee and \$5,000 per year for each postdoctoral trainee. This is not an automatic allowance. It represents the maximum allowable direct cost for essential support costs to the training program. Indirect cost may also be requested at 8% of total allowable direct cost or actual rate, whichever is less.

B. Individual Postdoctoral NRSA Fellowships

1. Postdoctoral Awards - Non-Federal Institutions

An institution may request funds of up to \$5,000 per 12-month period to the non-Federal sponsoring institution to help defray such awardee expenses as tuition and fees, appropriate health insurance, research supplies, equipment, travel to scientific meetings and related items. The allowance is under control of the sponsoring institution.

2. Postdoctoral Awards - Federal Institutions

An allowance of up to \$2,000 is available for the individual sponsored by a Federal laboratory for scientific meetings, travel expenses, appropriate health insurance, tuition and fees.

The new allowances are to be used in the preparation of all future NRSA applications. No retroactive adjustments will be made. Training program directors and individual NRSA awardees will be contacted by the awarding Institute as soon as implementation procedures have been completed.

Application forms and detailed instructions specific to this program should be requested from:

Office of Grants Inquiries
Division of Research Grants
National Institutes of Health
Bethesda, Maryland 20205

(301) 496-7441

REVISED GRANT APPLICATION FORM PHS 398

NOTICE

In response to several inquiries, we would like to emphasize that during this transition period prior to the availability of the new grant application form PHS 398, the instructions on the various fliers in the present application kit must still be followed. For example, if the research proposed involves human subjects, it is essential that attention be paid to the six points on the Important Notice, dated August 1976 (in the currently available application kit) and that the risks and benefits are described and evaluated.

GERIATRIC DENTISTRY ACADEMIC AWARD

NATIONAL INSTITUTE ON AGING



The National Institute on Aging (NIA) in cooperation with the National Institute of Dental Research (NIDR) announces the availability of NIA Geriatric Dentistry Academic Awards which have the dual purpose of improving the quality of curricula in geriatrics and of fostering research and careers in the field of aging. Each school of dentistry in the United States or its possessions and territories is eligible for such an award (awards will be limited to one for each eligible school, for a project period up to five years). The number of new awards made each year will depend on the availability of funds.

The Institute has initiated the Geriatric Dentistry Academic Award Program to provide a stimulus for development of a curriculum in geriatric dentistry in those schools that do not have one and to strengthen and improve the curriculum in those schools that do. Awards provide support for individual faculty members for their research and educational development, and for implementation of the curriculum in geriatric dentistry.

I. OBJECTIVES OF THE AWARD

The Geriatric Dentistry Academic Award is made to:

- o encourage development of a quality curriculum in geriatrics that will attract outstanding students to aging research and contribute to the improved dental care for the aged;
- o ensure superior learning opportunities in geriatric dentistry;
- o develop promising young faculty whose research interest and training are in geriatric dentistry;
- o develop superior faculty who have a major commitment and possess educational skills for teaching and doing research in the field of geriatric dentistry;
- o facilitate interchange of educational and research techniques and ideas among awardees and institutions; and
- o develop at the grantee institution the incentive to continuously strengthen research and the curriculum in geriatric dentistry, with the expectation of a commitment of local funds subsequent to the award.

Awards will be made under the authority of the Public Health Service Act, Title III, Section 301 (Public Law 78-410, as amended; 42 USC 241) and administered under PHS grant policies and Federal Regulations 42 CFR Part 52 and 45 CFR Part 74.

II. CRITERIA FOR AWARD

Competitive review for a geriatric dentistry academic award will include assessment of both the applicant sponsoring institution and the proposed awardee investigator. The criteria for an institution to receive a grant are provided below.

The institution must:

- name and sponsor as the academic investigator a candidate with competence in geriatric dentistry and a major career interest in research and in improving educational programs;
- identify the research and educational resources (patients, manpower, materials) necessary to implement the proposed program;
- provide the awardee investigator with time to acquire the educational skills necessary for personal development as a teacher, and for the development of the curriculum in geriatric dentistry;
- have facilities for rigorous research in the field of aging and quality patient care; and
- state the mechanisms for continued institutional support of research and the curriculum in geriatric dentistry subsequent to the award.

The awardee must:

- have research training or clinical experience in the field of aging;
- present a program for developing or improving the curriculum in geriatric dentistry at the grantee institution;
- commit a minimum of 50% of his/her effort to developing or improving the curriculum in geriatric dentistry.
- agree to meet annually with other recipients of Geriatric Dentistry Academic Investigator Awards to exchange ideas, methods, and program evaluations;
- agree to report annually on the status of the program - since this report will include an evaluation of the program, the proposal must detail a plan for the development of such an annual evaluation;
- hold an academic appointment at a school of dentistry in the United States, or have been lawfully admitted to the United States for permanent residence at the time of the application.
- provide an evaluation and agree to respond to institute requests for follow up information for a period of 5 years after the award has terminated.

III. PROVISIONS OF THE AWARD

Subject to availability of necessary funds, and consonant with the objectives of the Geriatric Dentistry Academic Award, the Institute will provide funds annually for a project period up to five years. Awards will be limited to one for each eligible school.

The award may provide funds for:

- support for the awardee, who will give a minimum of 50% of his/her effort to developing and implementing the curriculum in geriatric dentistry. In no event will salary support from the grant exceed \$30,000 annually.
- travel to enable the awardee to develop educational and research skills and to meet with other awardees to exchange ideas, methods, and program evaluations;
- equipment necessary to develop the curriculum in geriatric dentistry;
- supplies necessary to achieve the program's objectives;
- consultant fees for a limited number of experts in the area of dentistry, geriatrics, and education;
- research allowances, to be determined by NIA, for a limited number of students to participate in research experiences related to dentistry and geriatrics; and
- indirect costs, actual up to, but not to exceed, 8% of allowable direct costs.

IV. REVIEW OF APPLICATIONS

Applications for initial Geriatric Dentistry Academic Awards will be appraised in terms of criteria outlined for the institution and the awardee in Section II, CRITERIA FOR THE AWARD.

The review will include an initial assessment of the written proposal and may require an interview with the prospective awardee investigator in Bethesda, Maryland (travel expenses for this interview must be paid by the applicant institution). When necessary, a site visit may be made to the institution. The initial review group will recommend applicants for consideration to the National Advisory Council on Aging.

V. WHEN AND HOW TO APPLY

Applicant institutions and the prospective awardee should submit a letter of intent prior to submission of the formal application. These letters will not be considered commitments, but will be used by the NIA to estimate the number of proposals to be submitted.

Applications for Geriatric Dentistry Academic Awards will be recieved by the National Institutes of Health November 1, March 1, and July 1. Applications received too late for one receipt date will be held for a subsequent date.

Use application form PHS 398. If the institution's business office or Central Application Control Office does not have this form, a copy may be obtained by writing to:

Office of Grant Inquiries
Division of Research Grants
National Institutes of Health
Bethesda, Maryland 20205

or by calling (301) 496-7441.

Type the phrase "NIA GERIATRIC DENTISTRY ACADEMIC AWARD" as the title for the proposal on the front page of the application.

Use the special Guidelines for preparation of a Geriatric Dentistry Academic Award. These may be requested from the NIA (see address below). Staff of NIA is prepared to provide limited consultation in the preparation of applications. Inquiries should be directed to:

Chief, Biophysiology
and Pathobiology
Biomedical Research
and Clinical Medicine
National Institute on Aging
Bethesda, Maryland 20205

Telephone: (301) 496-1033

SUMMARY OF ACTIVE PROGRAM ANNOUNCEMENTS

FOR THE

NATIONAL INSTITUTE ON AGING

I. BACKGROUND INFORMATION

The National Institute on Aging (NIA) was established in 1974 to conduct and support biomedical, behavioral and social research and research training related to the aging processes and the diseases and other special problems and needs of the aged.

In 1978 and 1979, NIA began to identify through program announcements in the *NIH Guide for Grants and Contracts* research areas that are of importance to the development of research on aging. These areas of research were selected because of their basic relevance to development and support of aging research. In view of this basic and continuing relevance to research on aging, NIA is reiterating its interest to support research in these areas by identifying recent program announcements that continue to have primary significance for the further development of research on aging.

Currently active program announcements of NIA are:

BIOMEDICAL RESEARCH AND CLINICAL MEDICINE

Acting Associate Director - Dr. Donald Murphy

Basic Aging Program - Chief, Dr. Donald Murphy
(301) 496-5534

Title

Gerontological and Geriatric Dermatology
Vol. 8, No. 12, September 26, 1979
Contact - Dr. Donald Murphy

Basic Aging Program
Vol. 7, No. 12, September 1, 1978
Contact - Ms. Linda Pohutsky

The Genetic Basis of Aging: *Drosophila* As A Model System
Vol. 7, No. 12, December 15, 1978
Contact - Dr. Donald Murphy

These programs are described in the Catalog of Federal Domestic Assistance Number 13.866. Awards will be made under the authority of the Public Health Service Act, Title III, Section 301 (Public Law 78-410, as amended; 42 USC 241) and administered under PHS grant policies and Federal Regulations 42 CFR Part 52 and 45 CFR Part 74.

The Cultured Fibroblast-Like Cell: The In Vivo Precursor
Cell Types and the Post-Proliferative Characterization
Vol. 7, No. 12, September 1, 1978
Contact - Dr. Nirmal Das

The Genetic Basis of Aging: Protozoa As Models
Vol. 8, No. 8, June 5, 1979
Contact - Dr. Donald Murphy

Molecular and Biochemical Aging Program - Chief, Dr. Lester Smith
(301) 496-9350

Title

Pharmacology Program
Vol. 7, No. 12, September 1, 1978
Contact - Dr. Lester Smith

The Epidemiology of Diabetes
Vol. 7, No. 13, September 22, 1978
Contact - Dr. Richard Irwin

Behavioral Studies Related to Diabetes Mellitus
Vol. 8, No. 4, March 16, 1979
Contact - Dr. Richard Irwin

Immunology Program
Vol. 8, No. 9, July 6, 1979
Contact - Dr. Lester Smith

Biophysiology and Pathobiology of Aging Program - Acting Chief,
Dr. Zaven Khachaturian
(301) 496-1033

Title

Nutrition In Relation to Health of the Aged and Aging Processes
Vol. 7, No. 12, September 1, 1978
Contact - Dr. Zaven Khachaturian

Function of the Aging Musculoskeletal System
Vol. 8, No. 9, July 6, 1979
Contact - Dr. Zaven Khachaturian

Studies on Overnutrition and Obesity
Vol. 7, No. 18, November 27, 1978
Contact - Dr. Zaven Khachaturian

SOCIAL AND BEHAVIORAL RESEARCH

Title

Minority Aging
Vol. 7, No. 19, December 15, 1978
Contact - Ms. Shirley Bagley
(301) 496-9666

Retirement and Aging
Vol. 7, No. 12, September 1, 1978
Contact - Ms. Shirley Bagley
(301) 496-9666

Aging and Bereavement
Vol. 7, No. 12, September 1, 1978
Contact - Ms. Shirley Bagley
(301) 496-9666

II. MECHANISM OF SUPPORT - FUNDING

The support for this program will be via the traditional NIH research project grant. Applicants are expected to plan and execute their own research programs. Support of grants pursuant to this announcement is contingent upon ultimate receipt by NIA of appropriated funds for these purposes.

III. REVIEW PROCEDURES AND CRITERIA

A. Application Review

Upon receipt, all applications will be assigned by the Division of Research Grants according to accepted Referral Guidelines to an Initial Review Group for scientific merit review and to an appropriate Institute or Division for final review by their National Advisory Council/Board.

B. Review Criteria

Applications must be relevant to the goals of this announcement. The factors considered in evaluating applications are:

- scientific merit of the research design, approaches, and methodology;
- adequacy of existing and proposed facilities and resources;
- qualifications and experiences of the principal investigator and proposed staff for the conduct of the proposed investigations;

- reasonableness of the subject and duration in relation to the proposed research;
- adequacy of time to be devoted by proposed project staff.

IV. METHOD OF APPLYING

Use the standard research grant application form PHS 398. If the institution's business office or central application control office does not have this form, an individual copy may be requested by writing to:

Office of Grants Inquiries
Division of Research Grants
National Institutes of Health
Bethesda, Maryland 20205

Telephone: (301) 496-7441

Follow the instructions with the application form PHS 398 making sure that the items noted in Section III of this announcement are covered appropriately.

Type the phrase "PREPARED IN RESPONSE TO NIA PROGRAM ANNOUNCEMENT ---- (identify title of particular program announcement to which this application is responding) along the side of the face page and at the top of the abstract. Forward to:

Division of Research Grants
National Institutes of Health
Room 240, Westwood Building
5333 Westbard Avenue
Bethesda, Maryland 20205

Application receipt dates are November 1, March 1, and July 1.

V. INQUIRIES AND CORRESPONDENCE

Inquiries and correspondence should be directed to the telephone number on the programs identified in the listing:

National Institute on Aging
9000 Rockville Pike
Bethesda, Maryland 20205

SOURCES SOUGHT

ALTERNATIVES TO LONG-TERM INSTITUTIONAL

CARE FOR THE ELDERLY

NATIONAL INSTITUTE ON AGING

ANNOUNCEMENT

The National Institute on Aging is seeking information from sources that provide alternatives to long-term institutional care for the elderly. The National Institute on Aging, mandated by Congress in 1974 to "conduct and support (of) biomedical, social, and behavioral research and training related to the aging process and the diseases and other special problems and needs of the aged..." (P.L. 93-296), recognizes the magnitude of the problem of long-term care for the elderly in both institutional and non-institutional settings. The National Institute on Aging seeks responses from organizations, groups, or individuals having experience in and data on non-institutional options for care. This announcement is based on two assumptions: (1) reliable data on past and present demonstration projects that provide non-institutional care for the elderly in the United States, using either private or government funding, are available; and (2) by bringing together a group of those who have collected these data with experts in other aspects of geriatric medicine, we could develop an understanding of the current state of the art and identify opportunities for future research. Summary information is requested from each source responding on the following items: (1) the demography of the population served, (2) the reasons or criteria for inclusion in the project, (3) the services provided and their evaluation, (4) the costs and the charges to those served or their families, (5) the sources of funding for the project (i.e., private, third-party, government, philanthropy, etc.), (6) the administrative structure, (7) a preliminary evaluation of strengths and weaknesses, and (8) the form of available data on (1)-(7).

This is not a request for proposals. Concise responses directed specifically to the eight points mentioned above are requested. Resumes of key personnel should be provided.

Sources responding should also indicate whether they are willing to participate in a conference on this subject.

Please send ten (10) copies of responses to: Carol Lynn Ludwig, M.D., Medical Advisor and Special Projects Officer, National Institute on Aging, National Institutes of Health, Building 31, Room 5C-35, 9000 Rockville Pike, Bethesda, Maryland 20205.

Closing date for responses is January 1, 1980.

This announcement does not commit the Government to make an award.

PSEUDOMONAS INFECTIONS IN CYSTIC FIBROSIS

NATIONAL INSTITUTE OF ALLERGY

AND INFECTIOUS DISEASES

ANNOUNCEMENT

During the past two years, the various Institutes of the NIH involved in supporting Cystic Fibrosis (CF)-related research have attempted to increase investigator awareness of the challenges in CF research. Several NIH-wide program announcements have appeared, the last being in Volume 8, Number 1 of the *NIH Guide for Grants and Contracts*.

As part of this NIH-wide CF effort, the National Institute of Allergy and Infectious Diseases is announcing its interest in expanding its support for research in the problem of infections in CF patients caused by Pseudomonas aeruginosa organisms.

CF is a common hereditary disease of the Caucasian race; children afflicted with this disease have a generally shortened life span, with a mean survival age of about 20 years. Death is commonly the result of respiratory failure, accompanied by a chronic purulent bronchitis. The pulmonary infections in CF patients have a distinctive bacterial flora; the most common micro-organism isolated from the sputum of CF patients, prior to the advent of antibiotics, was Staphylococcus aureus. Following use of effective anti-staphylococcal therapy, the predominant infecting agent in the lungs of CF patients has now become Pseudomonas aeruginosa.

One of the major problems seen in Pseudomonas-infected lungs of the CF patient is the production of considerable amounts of a thick mucoid slime material; this mucoid slime is not seen in Pseudomonas infections in diseases other than CF. Circulating anti-pseudomonal antibody is generally at a high level in the serum of CF patients; this may account for the low incidence of pseudomonal bacteremia seen in this patient population. Despite the use of antibiotics and the high level of circulating anti-pseudomonal antibody, it is the Pseudomonas microorganism that consistently colonizes and infects the lungs of the CF patient.

In January 1979, the NIAID held a workshop on the problem of Pseudomonas infections in patients suffering with CF. At this workshop many different aspects of these infections in CF patients were discussed by a panel of experts. A summary of this report is to be published in the Journal of Infectious Diseases.

This program is described in the Catalog of Federal Domestic Assistance number 13.856, Microbiology and Infectious Disease Research. Awards are under authorization of the Public Health Service Act, Title III, Section 301 (Public Law 78-410, as amended; 42 USC 241) and administered under PHS grant policies and Federal Regulations 42 CFR Part 52 and 45 CFR Part 74.

At the conclusion of the workshop a small group of the experts explored the gap areas in our current knowledge of these infections and made a series of recommendations for further research needed to overcome these gap areas. These recommendations form the basis for the Institute's response to the problem of infection in the CF patient. The recommendations of these experts for further research needs are listed here:

1. Microbiology

- a. Biology - examination of the Pseudomonas cell structure, cell antigens and cellular products - alginate (or glycocalyx), proteases, exotoxins
- b. Genetics - control of virulence factors; role of plasmids

2. Immunology

- a. Immune prophylaxis - development of a less toxic Pseudomonas vaccine, specifically for early use in CF patients prior to a first Pseudomonas infection
- b. Immunotherapy
- c. Immune composition of bronchial secretions
- d. Immunological factors - host defenses of the lung against the infecting agent
- e. Immune control of goblet cell functions
- f. Immune complexes - formation and putative role in CF

3. Biochemistry

- a. Biochemical composition of secretions in the Pseudomonas-infected CF patient
- b. Biochemistry of lung surfactants in the Pseudomonas-infected patient

4. Clinical

- a. Epidemiology - longitudinal studies; role of viral and mycoplasmal infections in CF patients
- b. Factors affecting acquisition and persistence of Pseudomonas organisms
- c. Role of anti-inflammatory agents in CF

5. Animal Models

- a. Expand and refine the existing rat model systems (agar bead rat model and reserpine rat model)
- b. Search for other suitable models (primates); anti-inflammatory agent studies in animal model systems
- c. Study of pathogenesis, immunotherapy, prevention in these animal models

The NIAID is requesting submission of research grant proposals and individual National Research Service Award (NRSA) postdoctoral fellowship applications for initiation of research in any of the areas mentioned above.

Research proposals should be submitted on application form PHS 398 to:

Application Receipt Office
Division of Research Grants
National Institutes of Health
Room 240, Westwood Building
Bethesda, Maryland 20205

Fellowship proposals should be submitted on form 416-1 to the same address.

Receipt dates for research grant proposals are November 1, March 1, and July 1 of each year; and for postdoctoral NRSA fellowship applications, October 1, February 1, and June 1 of each year. This program announcement has no termination date.

Review of research proposals will be by an appropriate Initial Review Group of the Division of Research Grants, with final review by the National Advisory Allergy and Infectious Diseases Council at its regularly scheduled meetings. Final review of NRSA postdoctoral fellowship applications will be by the NIAID Fellowship Review Group. Applicants will be notified by mail, shortly after final review, of the outcome of their proposals.

Support for these proposals will be on a competitive basis and will depend on the availability of funds.

Application forms may be obtained from the Division of Research Grants or from the investigator's institutional business office.

For further information contact:

Milton Puziss, Ph.D., Chief
Bacteriology and Virology Branch
Microbiology and Infectious Diseases Program
National Institute of Allergy and Infectious Diseases
Room 738, Westwood Building
Bethesda, Maryland 20205

AVAILABILITY OF PREVENTIVE CARDIOLOGY

ACADEMIC AWARD

NHLBI

ANNOUNCEMENT

The Division of Heart and Vascular Diseases, National Heart, Lung, and Blood Institute has initiated the Preventive Cardiology Academic Award to provide a stimulus for the development of a preventive cardiology curriculum in those schools of medicine and osteopathy that do not have one and to strengthen and improve the preventive cardiology curriculum in those schools that do. Each school of medicine or osteopathy in the United States and its possessions or territories is eligible to compete for one award for a project period that does not exceed five years. The number of awards made each year will depend upon the availability of funds.

For the purposes of the Preventive Cardiology Academic Award, the term preventive cardiology is used to define the area of cardiovascular medicine having a special concern with the development of knowledge and the application of knowledge directed at the prevention of heart and vascular diseases. This includes the area of primary prevention of cardiovascular diseases in infants, children, and adults who are at risk of developing such diseases and the reduction of preventable complications or disability in persons who have already developed cardiovascular disease.

This award is intended to:

- encourage the development of a high quality preventive cardiology curriculum in schools of medicine and osteopathy that will significantly increase the opportunities for students and house staff to learn both the principles and practice of preventive cardiology;
- develop promising faculty whose interest and training are in preventive cardiology teaching, research and practice;
- develop superior faculty who have a major commitment to, and possess educational skills for teaching preventive cardiology;
- facilitate interchange of educational ideas and methods applicable to teaching preventive cardiology among awardees and institutions; and
- develop at the grantee institution the ability to strengthen continuously the improved preventive cardiology curriculum, with local funds, subsequent to the award.

This program is described in the Catalog of Federal Domestic Assistance Number 13.837. Awards will be made under the authority of the Public Health Service Act, Title III, Section 301 (Public Law 78-410, as amended; 42 USC 241) and administered under PHS grant policies and Federal Regulations 42 CFR Part 52 and 45 CFR Part 74.

CRITERIA FOR THE AWARD

Competitive review of proposals will include an evaluation of the evidence of commitment of both the sponsoring institution and the head of the cardiology division to the accomplishment of the objectives of the award as well as the qualifications, interest and commitment of the candidate to undertake responsibility for implementing a high quality preventive cardiology curriculum. Sponsorship of the candidate must be by the head of the division responsible for the teaching and practice of cardiology in the institution. Joint appointments with other departments or schools such as Preventive Medicine, Pediatrics or Epidemiology are encouraged when they would lead to a meaningful enhancement of the curriculum, extend concepts of prevention to other teaching areas or enhance the candidate's professional development in preventive cardiology teaching, research or practice. Multidisciplinary programs are encouraged.

The candidate must have sufficient clinical training and research experience in cardiology to be able to develop and implement a high quality curriculum within the institution. If the candidate's background requires further educational development, the plans to acquire this additional training should be described. Relevant training in epidemiology, clinical trials, behavioral science or other areas could be advantageous in the broader role of the candidate in stimulating preventive cardiology concepts among other peer health professionals in the institution.

PROVISIONS OF THE AWARD

The non-renewable Preventive Cardiology Academic Award may include funds for the awardee's salary, fringe benefits, developmental funds, and actual indirect costs not to exceed 8% of total allowable direct costs.

The applicant may request salary support up to \$30,000 per year. In addition, to this amount, fringe benefits may be requested at the applicable institutional rate.

The proportion of the applicant's total salary which is requested from this grant must be commensurate with the time or effort (at least 50%) to be devoted to the Preventive Cardiology Academic Award. The total salary on which it is based must be consistent both with the established salary structure at the institution and with salaries actually provided by the institution from its own funds to other staff members of equivalent qualifications, rank, and responsibilities in the department concerned. If full-time salaries are not currently paid to comparable staff members, the proposed salary must be appropriately related to the existing part time salary structure. The Awardee may devote up to 50% effort as principal or participating investigator on an NIH-supported grant(s) or contract(s) and may be remunerated from the grant(s) or contract(s) accordingly.

Developmental funds may include personnel support necessary to achieve the program objectives; travel funds to enable the awardee to visit other institutions or to attend special meetings, courses or conferences designed to increase his/her knowledge and competence in the teaching/learning process

related to preventive cardiology; equipment necessary as teaching aids; supplies necessary to the program objectives; and stipends for a limited number of students to extend their preventive cardiology learning experience during their elective quarter in the academic year.

Deadlines for Receipt of Applications

Beginning in April 1980 annual receipt dates have been established as follows:

<u>APPLICATION RECEIPT</u>	<u>COUNCIL REVIEW</u>	<u>START DATE</u>
April 1	September	July 1*

*Of the year following application receipt.

For Addition Information

Prospective applicants are encouraged to review the Preventive Cardiology Academic Awards Guidelines dated November 1, 1979 which detail the eligibility requirements and application procedures. Requests for copies of these guidelines and questions related to Preventive Cardiology Academic Award should be directed to:

Dr. Max A. Heinrich, Jr.
Manpower Branch
Division of Heart and Vascular Diseases
National Heart, Lung, and Blood Institute
Room 3A12, Federal Building
Bethesda, Maryland 20205

(301) 496-1724